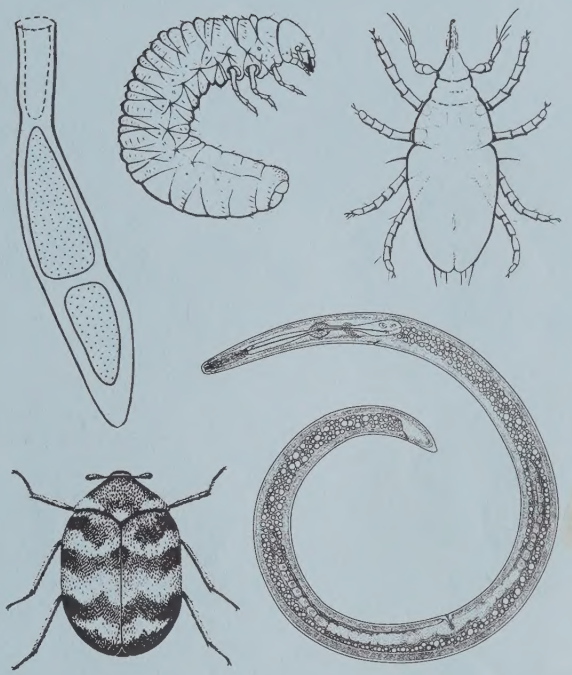
Agriculture
Canada

INTERCEPTED PLANT PESTS 1971·1972

CANADIAN PLANT QUARANTINE



- 7MAY1973
87573

Issued by
PLANT PROTECTION DIVISION,
PRODUCTION & MARKETING
BRANCH,
CANADA DEPARTMENT
OF AGRICULTURE

CONTENTS

Introduction 1

Notes on pests intercepted 2

Pest-host lists

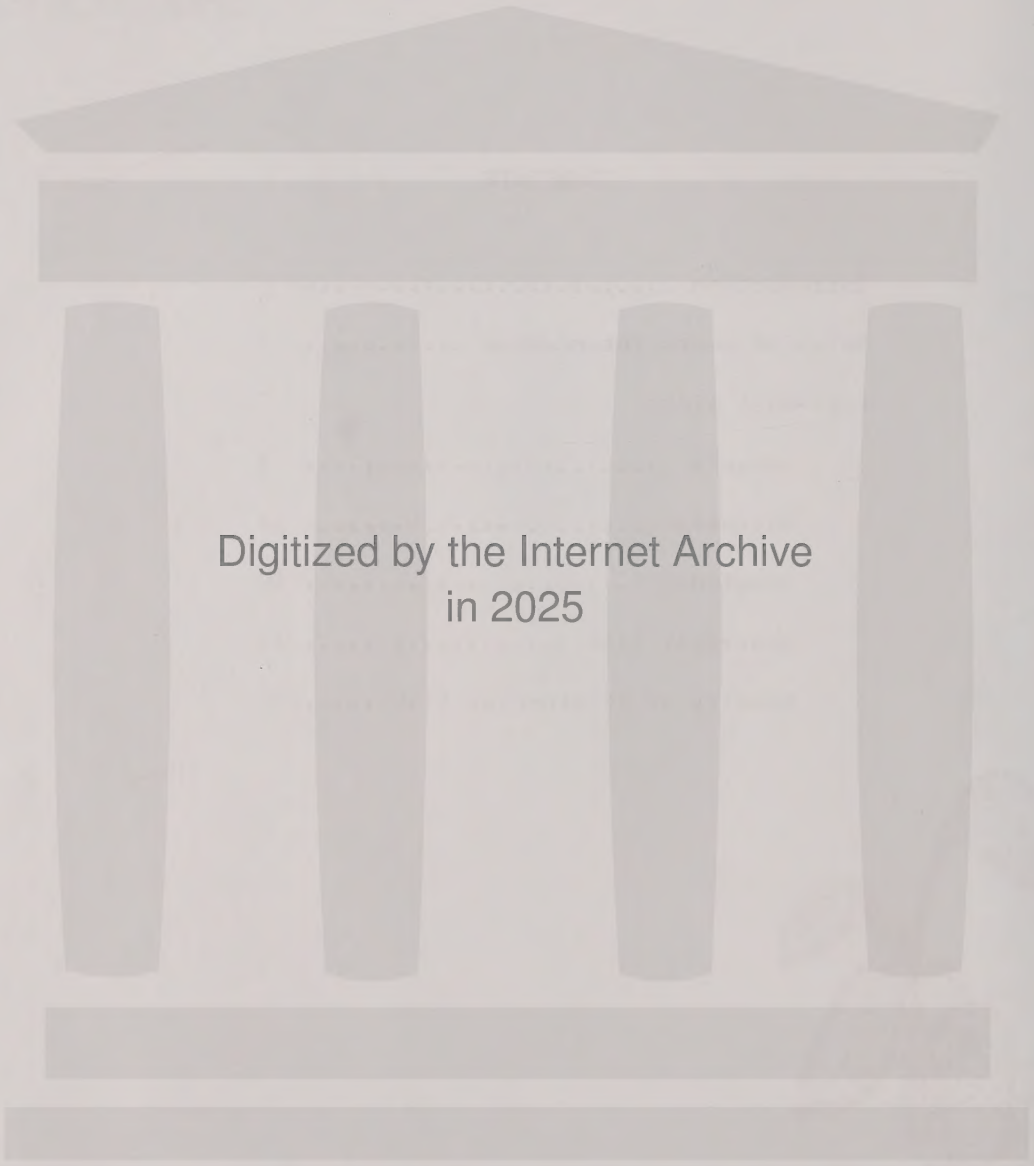
Insects 3

Diseases 8

Nematodes 10

Host-pest list 15

Country of origin-pest list 20



Digitized by the Internet Archive
in 2025

https://archive.org/details/intercepted-plant-pests_1971-1972

CANADA DEPARTMENT OF AGRICULTURE

Production and Marketing Branch — Plant Protection Division

LIST OF INTERCEPTED PLANT PESTS

April 1st, 1971 - March 31st, 1972

INTRODUCTION

This report summarizes the import interception records of the Plant Protection Division for the period April 1st, 1971, to March 31st, 1972, and includes plant pests found on plants, plant products, baggage, cargo, mail or carriers entering Canada. Pest records concerning pre-shipment inspection of flowering bulbs in the Netherlands, the Canadian Nursery Survey, Canadian Export Certification, and various domestic surveys may be found in other reports covering these activities. The following lists include only those pests which are considered to be of plant quarantine interest and a few which may be of interest because they are new to the country of origin or to the host plant or are of limited distribution in Canada.

In order to prepare a report of this type, Canadian distribution records for the various plant pests must be available and the taxonomy of the various groups must be relatively stable. Where there is insufficient information in regard to these requisites, the pests concerned are arbitrarily included in these lists.

In this report pests are recorded in three groups: insects, etc.; fungi, bacteria, viruses and nematodes. Imports are divided into two groups: "propagation" and "consumption", according to their obvious or intended use. The term "non-entry" may appear under either of these two groups. This refers to the interception of a pest in the space of a carrier (ship, airplane, etc.) or on some product, plant, etc. within the carrier not intended to be moved into this country. In all cases, however, the carrier was present on Canadian soil or in Canadian waters at the time of inspection. The heading "Host (or carrier)" is used in this report because many of the plants associated with a specific pest may not necessarily be host plants, and soil or other materials not associated with plants at the time of interception may also carry pests. The term "Soil" is used only when no recognizable plant or plant material could be associated with the soil in which a pest was found.

Both the "Host" and "Origin" lists refer only to the name of the pest organism. The most complete information is available in the "Pest" list. A large number of the more common intercepted insects, mites, mollusca, fungi, bacteria and nematodes were not included in these lists, but information on these as well as more detailed information on those included here is on file and may be obtained by contacting the Director, Plant Protection Division, Ottawa.

With few exceptions, determinations of insects, nematodes and fungi were made or were confirmed by specialists in the Research Branch, Canada Agriculture. Mollusca were identified at the Canadian National Museum. In certain centres, inspectors are qualified to make identifications of specific pests because of frequent interceptions of the pest from the same state or country. However, even such identifications are checked by specialists from time to time. The scientific names in the lists are those provided by each specialist at the time the determinations were made. Many pests were incompletely determined, but those which may be of quarantine significance are included in the lists.

Notes on Pests Intercepted

During the fiscal year covered by this report a total of 1,218 pest interceptions were made. This total is very similar to that of the previous fiscal year when 1,208 interceptions were recorded.

The following table compares the total interceptions for each of the three pest groups with the related totals which are of quarantine significance or other interest.

The figures in brackets are those for the previous fiscal year, 1970 - 71.

	No. of Interceptions	
	Total No.	Total of P.Q. Significance
Nematodes	434 (297)	246 (211)
Fungi and Viruses	165 (150)	46 (46)
Insects, Mites and Molluscs	619 (761)	179 (261)
Grand Total	1,218 (1,208)	471 (518)

The majority of the pests of non-quarantine significance included within the total numbers in the left hand column of the table represent important plant pests and as such require the application of a variety of appropriate controls prior to the release of shipments with which they are associated. However, whenever quarantine significant pests are found, the associated shipments are either refused entry or pest-eradicative action is taken prior to their release. Some examples of pests within the latter group which may be found in this report are: Arhopalus syriacus, a cerambycid wood borer in crates containing marble from Italy, Epiphyas postvittana, the light brown apple moth, in fresh apples, peaches and pelargonium plants from Australia; Helix aspersa, the brown garden snail, with various shrubs from California; larvae of "blues" butterflies, Lampides boeticus, with herbaceous plants from the Pacific area; the Argentine ant, Iridomyrmex humilis, in cut flowers from California; khapra beetle, Trogoderma granarium in grain residue in ships loading Canadian export grain and in various stored products in passengers' baggage from the Orient; Puccinia graminis causing stem rust of cereals was found in the teliospore stage on four occasions with dried wheat or oat plants from Italy; two pear viruses, Quince sooty blotch and Quince stunt on pear scions from Romania were recorded for the first time on imports. A cereal cyst nematode, Heterodera latipons was intercepted for the first time from two countries, Israel and Lebanon. Heterodera rostochiensis, the potato cyst nematode, was identified on 24 occasions from various prohibited shipments coming from at least six different countries which is a record annual number of interceptions for this important pest.

At least 215 of the interceptions of quarantine interest were from air passengers' baggage which represents almost half of the total quarantine significant interceptions for the year and indicates the continuing threat of pest introduction through this avenue of entry.

A. E. Straby,
Central Identification Laboratory,
Plant Protection Division.

March 31, 1973.

PEST (insect, etc.)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Propagation	Consumption	COLLECTED IN
Acedes fuscipunctella (Haw.) (Tineidae):					
	Grain residue in ship	Unknown		1 non-entry	B. C.
Acedes pallescentella (Staint.) "large pale clothes moth" (Tineidae):					
	Grain residue in ship	Unknown		9 non-entry	Quebec (3x), B.C. (6x)
Aceria tulipae (Kief.) "wheat curl mite" (Eriophyidae):					
	Allium sativum (garlic)	Italy	1		Quebec
Acrolophus sp. (Acrolophidae:					
	Carica (papaya)	Hawaii (USA)		1	B. C.
Ancylostomia ? *stercorea* Zell. (Phycitidae) first interception:					
	Cajanus (pigeon pea)	Trinidad		1	Ont.
Andricus californicus (Bassett) (Cynipidae) first interception:					
	Quercus	Cal. (USA)	1		B. C.
Araecerus ? *simulatus* (Gyll.) (Anthribidae) first interception:					
	Carica (papaya)	Hawaii (USA)		1	B. C.
Arhopalus syriacus Reitter (Cerambycidae) first interception:					
	Wood crates (containing marble) ..	Italy		1	Ont.
Arianta arbustorum (L.) "a snail" (Helicidae):					
	Packing (with plants)	Netherlands		1	B. C.
Blapstinus sp. "darkling ground beetle" (Tenebrionidae):					
	Airplane space	Jamaica		1 non-entry	Alta.
Callopistria floridensis Gn. "Florida fern caterpillar" (Noctuidae):					
	Nephrolepis sp. (fern)	Fla. (USA)	1		B. C.
Callosobruchus chinensis L. "southern cowpea weevil" (Bruchidae):					
	Beans (necklace)	Philippines		1	B. C.
	Phaseolus (mung beans)	Hong Kong		3	B. C.
		Swaziland		1	B. C.
Callosobruchus maculatus (F.) "cowpea weevil" (Bruchidae):					
	Juglans (walnuts)	Italy	1		B. C.
	Lupinus (seed)	Netherlands	1		B. C.
	Maba (plants)	Texas (USA)	1		Alta.
	Phaseolus (mung beans, etc.)	Fiji		2	Alta., B. C.
		France		1	B. C.
		Hong Kong		3	Ont., B.C. (2x)
		Netherlands		1	B. C.
		Philippines		1	B. C.
		Thailand		1	Que.
	Plants (dried)	Hawaii (USA)		1	B. C.
		Hong Kong		1	B. C.
Carpophilus dimidiatus (F.) "corn sap beetle" (Nitidulidae):					
	Plants (dried)	Indonesia		1	Ont.

PEST (insect, etc.)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Propagation	NO. OF INTERCEPTIONS IN Consumption	COLLECTED IN
Cryptophlebia ombrodelta (Lower) (Olethreutidae):					
	Litchi (nuts)	Hawaii (USA)		1	B. C.
Cryptorhynchus mangiferae (F.) "a weevil" (Curculionidae):					
	Mangifera (mango fruit)	Hong Kong		1	B. C.
Ctenicera sjaelandica (Muller) "a wireworm" (Elateridae):					
	Packing (with plants)	Netherlands		1	B. C.
Dacus dorsalis Hendel "oriental fruit fly" (Tephritidae):					
	Mangifera (mango fruit)	Fiji		1	B. C.
		Hong Kong		1	B. C.
		India		1	B. C.
Dinoderus brevis Horn (Bostrichidae):					
	Wood (palmyra stalks)	India		1	Que.
Dryocoetes sp. "a bark beetle" (Scolytidae) first interception of genus:					
	Wood (log remnants on ship)	Unknown		1	Ont.
Epiphyas postvittana (Wlk.) "light brown apple moth" (Tortricidae):					
	Malus (fresh apples)	Australia (Tasmania)		2	B. C.
	Pelargonium	Australia	1		B. C.
	Prunus (fresh peaches)	Australia		1	B. C.
Erebus odora L. "the black witch" (Noctuidae) first interception:					
	Airplane (space)	Unknown (Pacific area)		1	B. C.
Gnorimoschema (Phthorimoea) operculella (Zell.) "potato tuberworm" (Gelechiidae):					
	Solanum (chipping potatoes)	Pa. (USA)		1	Que.
		State? (USA)		1	Ont.
Gracilaria azaleella Brants "azalea leaf miner" (Gracilariidae):					
	Rhododendron (azalea)	Pa. (USA)	1		Ont.
Grapholitha molesta Busck "oriental fruit moth" (Olethreutidae):					
	Prunus (fresh peaches)	Cal. (USA)		2	B. C.
		State? (USA)		1	B. C.
	Pyrus (fresh sand pears)	Hong Kong		2	B. C.
Helix aperta Born. "a snail" (Helicidae):					
	Baggage	Italy		1	Ont.
Helix aspersa (Muller) "brown garden snail" (Helicidae):					
	Acanthus	Cal. (USA)	1		B. C.
	Erica	Cal. (USA)	1		B. C.
	Juniperus	Cal. (USA)	1		B. C.
	Thuja	Cal. (USA)	1		B. C.
Hypera postica (Gyll.) "alfalfa weevil" (Curculionidae):					
	Prunus (fresh peaches)	Cal. (USA)		1	B. C.
Iridomyrmex humilis (Mayr) "argentine ant" (Formicidae):					
	Cut flowers	Cal. (USA)		1	B. C.

PEST (insect, etc.)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Propagation	NO. OF INTERCEPTIONS IN Consumption	COLLECTED IN
Lampides boeticus L. "blues" (Lycaenidae) first interception:					
✱	Plants (herbaceous)	Unknown (Pacific area)	2		B. C.
Lasius neoniger Emery "an ant" (Formicidae):					
	Baggage	Hong Kong		1	B. C.
	Cut flowers	Netherlands		1	B. C.
✱	Plants (woody)	Mexico	1		Ont.
Laspeyresia splendana Hbn. "nut fruit tortrix" (Olethreutidae):					
	Castanea (chestnuts)	Italy		2	Que.
Lecanium sp. "a lecanium scale" (Coccidae):					
	Annona (custard apple)	Hawaii (USA)		1	B. C.
	Bambusa (bamboo plants)	Fla. (USA)	1		Ont.
Lophocateres pusillus Klug. "Siamese grain beetle" (Ostomidae):					
	Phaseolus (dried beans)	Singapore		1	B. C.
Lyctus brunneus "powder post beetle" (Lyctidae):					
	Cut flowers	England		1	B. C.
Membracidae "tree hoppers":					
✱	Salix (rooted cuttings)	Germany	1		Alta.
Minthea rugicollis (Wlk.) (Lyctidae):					
	Plants (dried)	Hong Kong		1	B. C.
	Prunus (almonds)	Hong Kong		1	B. C.
	Tamarindus (bean pods)	Philippines		1	B. C.
Monomorium destructor (Jerdon) "an ant" (Formicidae):					
	Mushrooms	Hong Kong		1	B. C.
	Nuts (unidentified)	Hong Kong		1	B. C.
	Panax (ginseng)	Hong Kong		2	B. C.
	Plants (dried)	Hong Kong		5	B. C.
	Seed (unidentified)	Hong Kong		1	B. C.
		Mexico		1	B. C.
	Wood (crates)	Japan		1	B. C.
Noctuidae "unidentified cutworms" (Lepidoptera):					
	Capsicum ..	Fiji		1	B. C.
	Cut flowers (lei)	Philippines		1	B. C.
	Packing (with plants)	Netherlands		1	Ont.
	Pelargonium (cuttings)	Cal.(USA)	1		Man.
	Plants (herbaceous)	Japan	1		B. C.
Onthophagus ? taurus (Scarabaeidae) first interception of genus:					
	Ship (space)	Orient (country?)		1	B. C.
Paratrechina longicornis (Latreille) "crazy ant" (Formicidae):					
	Saccharum (sugar cane)	Hawaii (USA)		1	B. C.

✱ a shipment prohibited by regulation

PEST (insect, etc.)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Propagation	Consumption	COLLECTED IN
Passandridae (Coleoptera):					
	Bambusa (bamboo in bales)	India		1	Que.
Pheidole dentata Mayr "big headed ants" (Formicidae):					
	Dracaena (ti logs)	Hong Kong	1		B. C.
Platyptilia ? pica (Wlsm.) "a geranium plume moth" (Pterophoridae):					
	Pelargonium (cuttings)	Cal. (USA)	3		B. C.
Pseudaulacaspis pentagona Targ. "white peach scale" (Diaspididae):					
✱	Prunus (cuttings)	Japan	1		B. C.
Pseudococcus fragilis Brain "the citrophilus mealy bug" (Pseudococcidae):					
	Dichorisandra	Fla. (USA)	1		B. C.
Recurvaria sp. (Gelechiidae):					
	Prunus (fresh peaches)	Cal. (USA)	1		B. C.
Reticulitermes sp. "subterranean termites" (Rhinotermitidae):					
	Packing (with plants)	Tenn. (USA)		1	B. C.
Rhyacionia buoliana (Schiff.) "European pine shoot moth" (Olethreutidae):					
	Pinus	Netherlands	1		Alta.
Rhyzopertha dominica (Fab.) "lesser grain borer" (Bostrichidae):					
	Grain residue in ship	Unknown		38 non-entry	N.B. (2x), Que. (9x), Ont. (3x), B.C. (24x)
	Phaseolus (mung beans)	Fiji		1	B. C.
	Plants (dried)	Fiji		1	B. C.
		Hong Kong		1	B. C.
	Reeds	Kenya		1	Ont.
Sinoxylon anale Lesne (Bostrichidae):					
	Wood (crates)	India		1	N. S.
		Pakistan		1	Que.
Sitotroga cerealella (Oliv.) "angoumois grain moth" (Gelechiidae):					
	Grain residue in ship	Unknown		1	Que.
Solenopsis saevissima richteri Forel "imported fire ant" (Formicidae):					
	Cocos (dried floral)	Jamaica		1	Ont.
	Saccharum (sugar cane)	Hawaii (USA)		1	B. C.
	Strelitzia	Fla. (USA)	1		B. C.
Sterrha ? inquinata (Scop.) "herbarium spanworm" (Geometridae):					
	Plants (dried)	Italy		1	B. C.
Systole coriandri Gussakovsky "a seed chalcid" (Eurytomidae) first species intercpetion:					
	Coriandrum (seed)	India		1	B. C.
Tapinoma melanocephalus (Fab.) "an ant" (Formicidae):					
	Cut flowers	Hawaii (USA)		2	B. C.
	Fruit (unidentified)	Hawaii (USA)		1	B. C.
	Plant (dried)	Hong Kong		1	B. C.

✱ a shipment prohibited by regulation

PEST (insect, etc.)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Propagation	NO. OF INTERCEPTIONS IN Consumption	COLLECTED IN
Tetramorium caespitum (L.) "the pavement ant" (Formicidae):					
	Fruit (unidentified)	Philippines		1	B. C.
Tetramorium guineense (Fab.) "Guinea ant" (Formicidae):					
	Ficus (rubber plant)	Fla. (USA)	1		B. C.
	Fruit (unidentified)	Australia		1	B. C.
Tetrapriocera longicornis (Oliv.)(Bostrichidae):					
✱	*Cassia* (seed pods)	Bahama		1	Ont.
Thylodrias contractus Mots. "odd beetle" (Dermestidae):					
	Citrus (dried orange peel)	Hong Kong		1	B. C.
Thyridopteryx ephemeraeformis (Haw.) "a bagworm" (Psychidae):					
	Juniperus	Oklahoma (USA)	1		Ont.
		Tenn. (USA)	2		Ont.
Trogoderma granarium Everts "khapra beetle" (Dermestidae):					
	Grain residue in ship	Russia		1 non-entry	N. S.
		Unknown		1 non-entry	Que.
	Phaseolus (beans)	India		1	B. C.
	Plants (dried)	Hong Kong		2	B. C.
Wasmannia auropunctata (Roger) "little fire ant" (Formicidae):					
	Plants (herbaceous)	Colombia	1		Ont.

✱ a shipment prohibited by regulation

PEST (disease)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Propagation	NO. OF INTERCEPTIONS IN Consumption	COLLECTED IN
Chlorotic leaf spot virus:					
Malus var's:	Famba 69	Switzerland	1		B. C. (P.E.Q.)
	Patul	Romania	1		B. C. (P.E.Q.)
	Rosie de Cluj	Romania	1		B. C. (P.E.Q.)
Fusarium lateritium Nees "a laburnum canker" (Moniliales):					
	Laburnum	Netherlands	1		Ont.
Gloeosporium cinctum B. & C. "orchid anthracnose" (Melanconiales):					
	Arachnanthe (orchid)	India	1		B. C.
Myxosporium lanceola Sacc. & Roum. "twig and stem canker" (Melanconiales) (Perf.= *Diaporthe leiphaimia*):					
	Quercus	Netherlands	5		Ont.
Pestalotia neglecta Thum. "a leaf spot" (Melanconiales) our first interception:					
	Euonymus	Belgium	1		Ont.
Phomopsis ? *salicina* Died. "a willow canker" (Sphaeropsidales):					
✱	*Salix*	Germany	1		Alta.
Puccinia allii Rud. (syn.= *P. blasdalei*; D. & H.) "an *Allium* rust" (Uredinales) our first interception:					
✱	*Allium* (garlic)	Italy	1		Que.
Puccinia graminis Pers. "stem rust of cereals" (Uredinales), teliospores:					
	Avena (oat sheaf)	Italy	1		Que.
✱	*Triticum* (wheat sheaf)	Italy	2		Que.
✱	*Triticum* (wheat admixed with commercial decorative dried plant shipment)	Italy	1		Que.
Quince sooty blotch virus; our first interception:					
	Pyrus var. Tamaioasca mica	Romania	1		B. C. (P.E.Q.)
Quince stunt virus; our first interception:					
	Pyrus var's: Tamaioasca Robert ..	Romania	1		B. C. (P.E.Q.)
	Sinti Limesti	Romania	1		B. C. (P.E.Q.)
	Timpurii de Dimbovita	Romania	1		B. C. (P.E.Q.)
	Timpurii de Voinesti	Romania	1		B. C. (P.E.Q.)
Spy epinasty and decline virus:					
	Malus var's: Famba 69	Switzerland	1		B. C. (P.E.Q.)
	Patul	Romania	1		B. C. (P.E.Q.)
	Rosie de Cluj	Romania	1		B. C. (P.E.Q.)

✱ a shipment prohibited by regulation

P.E.Q. Post Entry Quarantine Station, Saanichton

PEST (disease)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Propagation	NO. OF INTERCEPTIONS IN Consumption	COLLECTED IN
Stemphylium floridanum Hannon & Webber "stemphylium ray speck" (Moniliales):					
	Chrysanthemum (cuttings)	Fla. (USA)	1		Ont.
Tilletia decipiens (Pers.) Koern. "a bunt" (Uredinales) our first interception:					
	Agrostis (bent grass seed)	New Zealand	1		N. S.
Vein yellows virus:					
	Pyrus var's: Napoca	Romania	1		B. C. (P.E.Q.)
	Tamaioasca mica	Romania	1		B. C. (P.E.Q.)
	Tamaioasca Robert ..	Romania	1		B. C. (P.E.Q.)
	Sinti Limesti	Romania	1		B. C. (P.E.Q.)
	Timpurii de Voinesti	Romania	1		B. C. (P.E.Q.)
Virus group complex (Fanleaf, Yellow mosaic and Vein banding):					
	Vitis var's: Reisling	France	1		B. C. (P.E.Q.)
	Gamay Beaujolais ...	France	2		B. C. (P.E.Q.)
	Muller-Thurgau	France	1		B. C. (P.E.Q.)
	Marechal Foch	France	1		B. C. (P.E.Q.)
	Montepulciano	Italy	1		B. C. (P.E.Q.)
	Foch	France	4		B. C. (P.E.Q.)
	3309	France	1		B. C. (P.E.Q.)
	Florental	France	1		B. C. (P.E.Q.)
	G117-31-115	Germany	1		B. C. (P.E.Q.)
	Vallrien	France	1		B. C. (P.E.Q.)

P.E.Q. Post Entry Quarantine Station, Saanichton

PEST (nematode)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Propagation	NO. OF INTERCEPTIONS IN Consumption	COLLECTED IN
Anguina agrostis (Steinbuch 1799) Filip. 1936 "grass seed nematode" (Tylenchidae):					
	Agrostis spp. (bent grass, etc.) .	New Zealand	4		N. S., Que. (2x), B. C.
Aphelenchoides blastophthorus Franklin 1952 (Aphelenchoididae) first interception:					
	Trollius	Netherlands	1		N. B.
Aphelenchoides ? fragariae (Ritzema Bos 1890) Christie 1932 "strawberry foliar nematode" (Aphelenchoididae):					
	Paeonia	Japan	1		B. C.
Aphelenchoides saprophilus Franklin 1957 (Aphelenchoididae):					
	Trollius	Netherlands	1		N. B.
Aphelenchoides sp. "foliar nematodes" (Aphelenchoididae):					
	Allium (onion & shallot sets)	Netherlands	4		Que., Ont. (3x)
✱	Plants (herbaceous)	Scotland	1		Alta.
✱	Rosmarinus	Yogoslavia	1		Que.
Criconemoides sp. "ring nematodes" (Criconemoides):					
	Acer	England	1		Ont.
✱	Plants (herbaceous)	France	1		Ont.
✱	Quercus	Denmark	1		Alta.
✱	Salix	Germany	1		Alta.
✱	Soil (on wooden barrels)	N.Y. (USA)		1	Ont.
✱	Stephanotis	Netherlands	1		Alta.
Ditylenchus destructor Thorne 1945 "potato rot nematode" (Tylenchidae) our first interception on Trollius:					
	Iris (bulbous)	Wash. (USA)	1		B. C.
	Trollius	Netherlands	1		N. B.
Ditylenchus dipsaci (Kuhn 1857) Filip. 1936 "bulb & stem nematode" (Tylenchidae);					
	Allium (shallot sets)	France	1		Que.
Helicotylenchus buxophilus (Golden 1956) Perry 1959 "boxwood spiral nematode" (Tylenchidae):					
✱	Thymus	France	1		Que.
Helicotylenchus pseudorobustus (Steiner 1914) Golden 1956 "a spiral nematode" (Tylenchidae):					
✱	Soil (medicinal)	Poland		1	Ont.
Helicotylenchus ? vulgaris Yuen 1964 "a spiral nematode" (Tylenchidae):					
✱	Ficus	Italy	1		Que.
Helicotylenchus sp. (undescribed) "a spiral nematode" (Tylenchidae):					
✱	Plants (herbaceous)	Hong Kong	1		B. C.
		North Vietnam	1 non-entry		Que.
Helicotylenchus sp. "a spiral nematode" (Tylenchidae):					
	Philodendron	Fla. (USA)	1		Ont.
✱	Plant (herbaceous)	Portugal	1		Que.
✱	Quercus	Denmark	1		Alta.
	Rosa	Netherlands	1		N. B.
	Viola	Wash. (USA)	1		B. C.

✱ a shipment prohibited by regulation

PEST (nematode)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Propagation	NO. OF INTERCEPTIONS IN Consumption	COLLECTED IN
Heterodera avenae Woll. 1924 (Filip.1934) "oat-cyst nematode" (Heteroderidae):					
✱	Agricultural machinery (tractors with soil)	England		1	Que.
✱	Automobile (with soil)	Belgium		3	Que.
		England		1	B. C.
		Sweden		1	N. S.
✱	Cactus	Netherlands	1		Ont.
✱	*Citrus* (calamondin)	Italy	1		Que.
✱	*Iris* (rhizomes)	Wash. (USA)	1		B. C.
✱	Plants (herbaceous)	Austria	1		Ont.
		England	2		Que., Ont.
		Netherlands	1		Que.
		Yugoslavia	1		Ont.
Heterodera bifenestra Cooper 1955 (Heteroderidae):					
✱	Automobile (with soil)	Belgium		2	Que.
		France		1	Que.
✱	Plants (herbaceous)	Europe	1		Alta.
Heterodera cacti Filip. & Stek. 1941 "cactus-cyst nematode" (Heteroderidae):					
✱	*Amaryllis*	Portugal	1		B. C.
✱	*Begonia*	Portugal	1		Que.
✱	*Cactus*	England	2		Que., B. C.
		France	2		Que.
		Hungary	1		Que.
		Italy	1		Ont.
		Portugal	1		Que.
✱	*Calluna* (heather)	Scotland	1		B. C.
✱	*Leontopodium*	France	1		B. C.
✱	*Mentha*	England	1		Ont.
		Italy	1		Que.
✱	*Orchidaceae*	Surinam	1		Ont.
	Palmaceae	Fla. (USA)	1		Que.
✱	Plants (herbaceous)	Belgium	1		Que.
		Cal. (USA)	1		B. C.
		England	2		Ont., B. C.
		France	1		Que.
		Hawaii (USA)	1		B. C.
✱	*Rosmarinus*	Italy	1		Ont.
Heterodera cruciferae Franklin 1945 "cabbage-cyst nematode" (Heteroderidae):					
✱	*Convallaria*	Italy	1		Que.
✱	Plants (herbaceous)	Portugal	1		Ont.
Heterodera fici Kirjanova 1954 "fig-cyst nematode" (Heteroderidae):					
✱	*Ficus*	Germany	1		N. S.
		Italy	1		Que.
✱	*Pelargonium*	Italy	1		Que.
✱	Plants (herbaceous)	Mexico	1		Ont.
✱	Plants (woody)	Hungary	1		Ont.
✱	*Rosmarinus*	Italy	1		Que.
✱	*Vitis* (grape rooted cuttings)	Italy	1		Ont.

✱ a shipment prohibited by regulation

PEST (nematode)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Propagation	NO. OF INTERCEPTIONS IN Consumption	COLLECTED IN
Heterodera goettingiana Liebscher 1892 "pea-root nematode" (Heteroderidae):					
✱	*Calluna* (heather)	Scotland	1		Alta.
✱	Plants (herbaceous)	England	1		Que.
Heterodera ? *goettingiana* Liebscher 1892 "pea-root nematode" (Heteroderidae):					
✱	Plants (herbaceous)	Italy	1		Que.
Heterodera humuli Filip. 1934 "hop-cyst nematode" (Heteroderidae):					
✱	Automobile (with soil)	Belgium		1	Que.
		England		1	B. C.
✱	Cactus	Italy	1		Que.
✱	*Calluna*	Scotland	1		Ont.
✱	*Euonymus*	Italy	1		Que.
✱	*Fragaria*	Netherlands	1		Que.
✱	*Fuschia*	Switzerland	1		Que.
✱	*Hedera*	Italy	1		Que.
✱	*Mentha*	England	1		Que.
✱	Plants (herbaceous)	Belgium	1		Ont.
		France	1		Que.
		Germany	2		Ont., B. C.
		Italy	3		Que., B. C. (2x)
		Portugal	1		Ont.
✱	Plants (woody)	Italy	1		B. C.
✱	*Rosa*	Italy	1		Que.
	Tilia	Wash. (USA)	1		B. C.
Heterodera latipons Franklin 1969 "a cereal-cyst nematode" (Heteroderidae) our first interception from Lebanon and Israel:					
✱	Soil (souvenir)	Israel		1	Ont.
✱	Stephanotis	Lebanon	1		Que.
Heterodera punctata Thorne 1928 "grass-cyst nematode" (Heteroderidae):					
✱	Automobile (with soil)	Belgium		2	Que.
		England		1	B. C.
		France		1	Que.
		Germany		4	N. S., B. C. (3x)
		Netherlands		1	B. C.
✱	Cactus	Netherlands	1		Ont.
✱	*Calluna*	England	1		Que.
✱	*Clematis*	Ireland	1		Que.
✱	*Ficus*	Italy	1		Que.
✱	*Fragaria*	Netherlands	1		Que.
✱	*Hydrangea*	England	1		N. S.
✱	*Pelargonium*	England	1		B. C.
✱	Plants (herbaceous)	England	5		N. S., Que., Ont. (3x)
		Germany	3		Ont.
✱	*Rosa*	England	1		Alta.
✱	Sod	Ireland	1		B. C.
✱	Soil (souvenir)	U.S.S.R. (state?)		1	Ont.

✱ a shipment prohibited by regulation

PEST (nematode)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Propagation	NO. OF INTERCEPTIONS IN Consumption	COLLECTED IN
Heterodera rostochiensis Woll. 1923 "potato-cyst nematode" (Heteroderidae):					
✱	Cactus	England	1		Que.
✱	*Calluna* (heather)	Scotland	6		Que. (2x), Ont. (2x), Alta. (2x)
✱	*Castanea*	Greece	1		Ont.
✱	*Hydrangea*	England	1		N. S.
✱	*Mentha*	Scotland	1		Que.
✱	Plants (herbaceous)	England	5		Ont. (4x), B. C.
		Europe	1		Ont.
		Germany	3		Ont.
		Netherlands	2		Que., B. C.
		Poland	1		Ont.
		Scotland	1		Ont.
✱	Soil (souvenir)	Germany		1	Ont.
Heterodera schachtii Schmidt 1871 "sugar beet-cyst nematode" (Heteroderidae):					
✱	*Aloe*	Belgium	1		Que.
✱	*Amaryllis*	Portugal	1		Que.
✱	*Asparagus*	Portugal	1		Que.
✱	Automobile (with soil)	Germany		1	N. S.
✱	Cactus	Portugal	1		Que.
✱	*Chlorophytum*	Greece	1		Que.
✱	*Crassula*	Italy	1		Que.
✱	*Datura*	Portugal	1		Que.
✱	*Dianthus*	Yugoslavia	1		Que.
✱	*Euonymus*	Italy	1		Que.
✱	Plants (herbaceous)	England	4		Que. (2x), Ont. (2x)
		Europe	1		Alta.
		Germany	1		B. C.
		Italy	1		Ont.
		Netherlands	1		Que.
✱	Soil (souvenir)	U.S.S.R. (state?)		2	Que., Ont.
Heterodera weissi Steiner 1949 "knotweed-cyst nematode" (Heteroderidae):					
	Pinaceae	Ohio (USA)	1		Ont.
		Penn. (USA)	1		Ont.
Heterodera ? *weissi* Steiner 1949 "knotweed-cyst nematode" (Heteroderidae):					
	Fruit understock	Miss. (USA)	1		B. C.
		Wash. (USA)	1		B. C.
✱	Soil	England		1	Ont.
Longidorus sp. "needle nematodes" (Longidoridae):					
✱	*Lithophragma* (Saxifragaceae)	Wash. (USA)	1		B. C.
Meloidogyne hapla "northern root-knot nematode" (Heteroderidae):					
	Buphthalmum (ox-eye daisy)	Netherlands	1		B. C.
	Elaeagnus	Tenn. (USA)	1		Ont.
	Euphorbia	Netherlands	1		B. C.
	Ligustrum	Tenn. (USA)	1		Ont.
	Papaver	Mich. (USA)	1		Ont.
	Rosa	Belgium	1		Ont.
		✱ France	1		Que.
		Mich. (USA)	1		Ont.
		✱ Netherlands	1		Que.
		Texas	16		Ont., B. C. (15x)

✱ a shipment prohibited by regulation

PEST (nematode)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Propagation	NO. OF INTERCEPTIONS IN Consumption	COLLECTED IN
Meloidogyne incognita (Kofoid & White 1919) Chitwood 1949 "southern root-knot nematode" (Heteroderidae):					
	Lycopersicon (tomato transplants)	Ga. (USA)	1		Ont.
	Rosa	France	1		Que.
Meloidogyne javanica (Treub 1885) Chitwood 1949 "Javanese root-knot nematode" (Heteroderidae):					
	Lycopersicon (tomato transplants)	Ga. (USA)	3		Ont.
Meloidogyne sp. "root-knot nematode" (Heteroderidae):					
	Lycopersicon (tomato transplants)	Ga. (USA)	4		Ont.
✱	Plants (herbaceous)	Colombia	1		Ont.
	Rosa	Texas	3		Ont.
Paratylenchus sp. "pin nematodes" (Criconematidae):					
✱	*Cedrus*	France	1		Que.
✱	*Mentha*	England	1		Que.
✱	*Rosmarinus*	Yugoslavia	1		Que.
✱	*Sisyrinchium* (iridaceae)	Wash. (USA)	1		B. C.
✱	Soil (souvenir)	Israel		1	Sask.
Pratylenchus penetrans (Cobb. 1917) Filip. & Stek. 1941 "Cobb's root-lesion nematode" 'Tylenchidae):					
✱	Plants (herbaceous)	U.S.S.R.(State?)	1		Que.
	Trollius	Netherlands	1		N. B.
Pratylenchus sp. "root-lesion nematodes" (Tylenchidae):					
	Acer	England	2		Ont.
✱	*Allium*	Wash. (USA)	1		B. C.
✱	*Laurus*	Italy	1		Que.
✱	Plants (herbaceous)	Greece	1		Que.
		Hong Kong	1		B. C.
		Scotland	1		Alta.
✱	Soil (souvenir)	Israel		1	Sask.
Rotylenchus robustus (de Man 1876) Filip. 1936 "a spiral nematode" (Tylenchidae):					
✱	*Crocus*	Netherlands	1		Que.
✱	*Trifolium*	Portugal	1		Que.
Rotylenchus sp. "a spiral nematode" (Tylenchidae):					
✱	Plants (herbaceous)	Scotland	1		Alta.
✱	Soil (medicinal)	Poland		1	Ont.
✱	Soil (on wooden barrels)	N.Y.(USA)		1	Ont.
Tylenchorhynchus sp. "stunt nematodes" (Tylenchidae):					
✱	Plants (herbaceous)	Colombia	1		Ont.
		France	1		Ont.
		Hong Kong	1		B. C.
Tylenchus davainei Bastian 1865 (Tylenchidae):					
✱	Plants (herbaceous)	France	1		Que.
		Portugal	1		Que.

✱ a shipment prohibited by regulation

Hosts (or carriers) of Intercepted Pests

ACANTHUS:
- Helix aspersa (Snail)

ACER:
- Criconemoides sp. (Nematode)
- Pratylenchus sp. (2x) "

AGRICULTURAL MACHINERY (TRACTORS):
- Heterodera avenae (Nematode)

AGROSTIS:
- Anguina agrostis (4x) (Nematode)
- Tilletia decipiens (Fungus)

AIRPLANE:
- Blapstinus sp. (Insect)
- Erebus odora "

ALLIUM:
- Aceria tulipae (Mite)
- Aphelenchoides sp. (4x) (Nematode)
- Ditylenchus dipsaci "
- Pratylenchus sp. "
- Puccinia allii (Fungus)

ALOE:
- Heterodera schachtii (Nematode)

AMARYLLIS:
- Heterodera cacti (Nematode)
- H. schachtii "

ANNONA (custard apple):
- Lecanium sp. (Insect)

ARACHNANTHE (orchid):
- Gloeosporium cinctum (Fungus)

ASPARAGUS:
- Heterodera schachtii (Nematode)

AVENA:
- Puccinia graminis (Fungus)

AUTOMOBILE:
- Heterodera avenae (5x) (Nematode)
- H. bifenestra (3x) "
- H. humuli (2x) "
- H. punctata (9x) "
- H. schachtii "

BAGGAGE:
- Helix aperta (Snail)
- Lasius neoniger (Insect)

BAMBUSA (bamboo plants):
- Lecanium sp. (Insect)

BAMBUSA (bamboo in bales):
- Passandridae (Insect)

BEANS (necklace):
- Callosobruchus chinensis (Insects

BEGONIA:
- Heterodera cacti (Nematode)

BUPHTHALMUM:
- Meloidogyne hapla (Nematode)

CACTUS:
- Heterodera avenae (Nematode)
- H. cacti (7x) "
- H. humuli "
- H. punctata "
- H. rostochiensis "
- H. schachtii "

CAJANUS (pigeon pea):
- Ancylostoma ? sterocorea (Insect)

CALLUNA (heather):
- Heterodera cacti (Nematode)
- H. goettingiana "
- H. humuli "
- H. punctata "
- H. rostochiensis (6x) "

CAPSICUM:
- Noctuidae (Insect)

CARICA (papaya):
- Acrolophus sp. (Insect)
- Araecerus ? simulatus "

CASSIA (pods):
- Tetrapriocera longicornis (Insect)

CASTANEA (chestnuts):
- Laspeyresia splendana (2x) (Insect)

CASTANEA (plants):
- Heterodera rostochiensis (Nematode)

CEDRUS:
- Paratalenchus sp. (Nematode)

CHLOROPHYTUM:
- Heterodera schachtii (Nematode)

Hosts (or carriers) of Intercepted Pests

CHRYSANTHEMUM:
- Stemphylium floridanum (Fungus)

CITRUS (dried peel):
- Thylodrias contractus (Insect)

CITRUS (plant):
- Heterodera avenae (Nematode)

CLEMATIS:
- Heterodera punctata (Nematode)

COCOS
- Solenopsis saevissima (Insect)

CONVALLARIA:
- Heterodera cruciferae (Nematode)

CORIANDRUM (seed):
- Systole coriandri (Insect)

CRASSULA:
- Heterdera schachtii (Nematode)

CROCUS:
- Rotylenchus robustus (Nematode)

CUT FLOWERS:
- Iridomyrmex humilis (Insect)
- Lasius neoniger "
- Lyctus brunneus "
- Noctuidae "
- Tapinoma melanocephalum (2x) "

DATURA:
- Heterodera schachtii (Nematode)

DIANTHUS:
- Heterodera schachtii (Nematode)

DICHORISANDRA:
- Pseudococcus fragilis (Insect)

DRACAENA:
- Pheidole dentata (Insect)

ELAEAGNUS:
- Meloidogyne hapla (Nematode)

ERICA:
- Helix aspersa (Snail)

EUONYMUS:
- Heterodera humuli (Nematode)
- H. schachtii "
- Pestalotia neglecta (Fungus)

EUPHORBIA:
- Meloidogyne hapla (Nematode)

FICUS:
- Helicotylenchus ? vulgaris (Nematode)
- Heterodera fici (2x) "
- H. punctata "
- Tetramorium guineense (Insect)

FRAGARIA:
- Heterodera humuli (Nematode)
- H. punctata "

FRUIT (understock):
- Heterodera ? weissi (2x) (Nematode)

FRUIT (unidentified):
- Tapinoma melanocephalum (Insect)
- Tetramorium caespitum "
- T. guineense "

FUSCHIA:
- Heterodera humuli (Nematode)

GRAIN (residue on ship):
- Acedes fuscipunctella (Insect)
- A. pallescentella (9x) "
- Rhyzopertha dominica (38x) "
- Sitotroga cerealella "
- Trogoderma granarium (2x) "

HEDERA:
- Heterodera humuli (Nematode)

HYDRANGEA:
- Heterodera punctata (Nematode)
- H. rostochiensis "

IRIS (bulbous):
- Ditylenchus destructor (Nematode)

IRIS (rhizomes):
- Heterodera avenae (Nematode)

JUGLANS (walnuts):
- Callosobruchus maculatus (Insect)

JUNIPERUS:
- Helix aspersa (Snail)
- Thyridopteryx ephemeraeformis (3x) (Insect)

LABURNUM:
- Fusarium lateritium (Fungus)

LAURUS:
- Pratylenchus sp. (Nematode)

Hosts (or carriers) of Intercepted Pests

LEONTOPODIUM:
- Heterodera cacti (Nematode)

LIGUSTRUM:
- Meloidogyne hapla (Nematode)

LITCHI (nuts):
- Cryptophlebia ombrodelta (Insect)

LITHOPHRAGMA:
- Longidorus sp. (Nematode)

LUPINUS (seed):
- Callosobruchus maculatus (Insect)

LYCOPERSICON (tomato seedlings):
- Meloidogyne incognita (Nematode)
- M. javanica (3x) "
- Meloidogyne sp. (4x) "

MABA (plants):
- Callosobruchus maculatus (Insect)

MALUS (plants):
- Chlorotic leaf spot virus (3x)
- Spy epinasty and decline (3x)

MALUS (fruit):
- Epiphyas postvittana (2x) (Insect)

MANGIFERA (mango):
- Cryptorhynchus mangifera (Insect)
- Dacus dorsalis (3x) "

MENTHA:
- Heterodera cacti (2x) (Nematode)
- H. humuli "
- H. rostochiensis "
- Paratylenchus sp. "

MUSHROOMS:
- Monomorium destructor (Insect)

NEPHROLEPIS (fern):
- Callopistria floridensis (Insect)

NUTS (unidentified):
- Monomorium destructor (Insect)

ORCHIDACEAE:
- Heterodera cacti (Nematode)

PACKING:
- Arianta arbustorum (Snail)
- Ctenicera sjaelandica (Insect)
- Noctuidae "
- Reticulitermes sp. "

PAEONIA:
- Aphelenchoides ? fragariae (Nematode)

PALMACEAE:
- Heterodera cacti (Nematode)

PANAX (ginseng):
- Monomorium destructor (2x) (Insect)

PAPAVER:
- Meloidogyne hapla (Nematode)

PELARGONIUM:
- Epiphyas postvittana (Insect)
- Heterodera fici (Nematode)
- H. punctata "
- Noctuidae (Insect)
- Platyptilia pica (3x) "

PHASEOLUS (mung beans, etc.):
- Callosobruchus chinensis (4x) (Insect)
- C. maculatus (11x) "
- Lophocateres pusillus "
- Rhyzopertha dominica "
- Trogoderma granarium "

PHILODENDRON:
- Helicotylenchus sp. (Nematode)

PINACEAE:
- Heterodera weissi (2x) (Nematode)

PINUS:
- Rhyacionia buoliana (Insect)

PLANTS (dried herbs, etc.):
- Carpophilus dimidiatus (Insect)
- Minthea rugicollis "
- Rhyzopertha dominica (2x) "
- Sterrha ? inquinata "
- Tapinoma melanocephalum "
- Trogoderma granarium (2x) "

PLANTS (herbaceous):
- Aphelenchoides sp. (Nematode)
- Criconemoides sp. "
- Helicotylenchus sp. (3x) "
- Heterodera avenae (5x) "
- H. bifenestra "
- H. cacti (6x) "
- H. cruciferae "
- H. fici "
- H. goettingiana (2x) "
- H. humuli (8x) "
- H. punctata (8x) "
- H. rostochiensis (13x) "
- H. schachtii (8x) "
- Lampides boeticus (2x) (Insect)

Hosts (or carriers) of Intercepted Pests

PLANTS (herbaceous) (continued):
- Meloidogyne sp. (Nematode)
- Monomorium destructor (5x) (Insect)
- Noctuidae "
- Pratylenchus penetrans (Nematode)
- Pratylenchus sp. (3x) "
- Rotylenchus sp. "
- Tylenchorhynchus sp. (3x) "
- Tylenchus davainei (2x) "
- Wasmannia auropunctata (Insect)

PLANTS (woody):
- Heterodera fici (Nematode)
- H. humuli "
- Lasius neoniger (Insect)

PRUNUS (almonds):
- Minthea rugicollis (Insect)

PRUNUS (fresh peaches):
- Epiphyas postvittana (Insect)
- Grapholitha molesta (3x) "
- Hypera postica "
- Recurvaria sp. "

PRUNUS (cuttings and scions):
- Pseudaulacaspis pentagona (Insect)

PYRUS (fresh sand pears):
- Grapholitha molesta (2x) (Insect)

PYRUS (scions):
- Quince sooty blotch virus
- Quince stunt virus (4x)
- Vein yellows virus (5x)

QUERCUS:
- Andricus californicus (Insect)
- Criconemoides sp. (Nematode)
- Helicotylenchus sp. "
- Myxosporium lanceola (5x) (Fungus)

REEDS:
- Rhyzopertha dominica (Insect)

RHODODENDRON:
- Gracilaria azaleella (Insect)

ROSA:
- Helicotylenchus sp. (Nematode)
- Heterodera humuli "
- H. punctata "
- Meloidogyne hapla (20x) "
- M. incognita "
- Meloidogyne sp. (3x) "

ROSMARINUS:
- Aphelenchoides sp. (Nematode)
- Heterodera cacti "
- H. fici "
- Paratylenchus sp. "

SACCHARUM (sugar cane):
- Paratrechina longicornis (Insect)
- Solenopsis saevissima "

SALIX:
- Criconemoides sp. (Nematode)
- Membracidae (Insect)
- Phomopsis ? salicina (Fungus)

SEED (unidentified):
- Monomorium destructor (2x) (Insect)

SHIP (space):
- Onthophagus ? taurus (Insect)

SISYRINCHIUM:
- Paratylenchus sp. (Nematode)

SOD:
- Heterodera punctata (Nematode)

SOIL (souvenirs, medicinal, etc.):
- Criconemoides sp. (Nematode)
- Helicotylenchus pseudorobustus "
- Heterodera latipons "
- H. punctata "
- H. rostochiensis "
- H. schachtii (2x) "
- H. ? weisii "
- Paratylenchus sp. "
- Pratylenchus sp. "

SOLANUM (potato):
- Gnorimoschema operculella (Insect)

STEPHANOTIS:
- Criconemoides sp. (Nematode)
- Heterodera latipons "

STRELITZIA:
- Solenopsis saevissima (Nematode)

TAMARINDUS (seed pods):
- Minthea rugicollis (Insect)

THUJA:
- Helix aspersa (Snail)

THYMUS:
- Helicotylenchus buxophilus (Nematode)

Hosts (or carriers) of Intercepted Pests

TILIA:	
Heterodera humuli	(Nematode)
TRIFOLIUM:	
Rotylenchus robustus	(Nematode)
TRITICUM (dried ornamental wheat):	
Puccinia graminis (3x)	(Fungus)
TROLLIUS:	
Aphelenchoides blastophthorus	(Nematode)
A. saprophilus	"
Ditylenchus destructor	"
Pratylenchus penetrans	"
VIOLA:	
Helicotylenchus sp.	(Nematode)
VITIS:	
Heterodera fici	(Nematode)
Virus group complex (Fanleaf, Yellow mosaic and vein banding) (14x)	
WOOD (crates):	
Arhopalus syriacus	(Insect)
Monomorium destructor	"
Sinoxylon anale (2x)	"
WOOD (log remnants on ship):	
Dryocoetes sp.	(Insect)
WOOD (palmyra stalks):	
Dinoderus brevis	(Insect)

Countries or Origin and Pests Intercepted

AUSTRALIA:

Epiphyas postvittana (4x)	(Insect)
Tetramorium guineense	"

AUSTRIA:

Heterodera avenae	(Nematode)

BAHAMA:

Tetrapriocera longicornis	(Insect)

BELGIUM:

Heterodera avenae (3x)	(Nematode)
H. bifenestra (2x)	"
H. punctata (2x)	"
H. schachtii	"
Meloidogyne hapla	"
Pestalotia neglecta	(Fungus)

COLOMBIA:

Meloidogyne sp.	(Nematode)
Tylenchorhynchus sp.	"
Wasmannia auropunctata	(Insect)

DENMARK:

Criconemoides sp.	(Nematode)
Helicotylenchus sp.	"

ENGLAND:

Criconemoides sp.	(Nematode)
Heterodera avenae (4x)	"
H. cacti (5x)	"
H. goettingiana	"
H. humuli (2x)	"
H. punctata (10x)	"
H. rostochiensis (7x)	"
H. schachtii (4x)	"
H. ? weissi	"
Lyctus brunneus	(Insect)
Paratylenchus sp.	(Nematode)
Pratylenchus sp. (2x)	"

EUROPE:

Heterodera bifenestra	(Nematode)
H. rostochiensis	"
H. schachtii	"

FIJI:

Callosobruchus maculatus (2x)	(Insect)
Dacus dorsalis	"
Noctuidae	"
Rhyzopertha dominica (2x)	"

FRANCE:

Callosobruchus maculatus	(Insect)
Criconemoides sp.	(Nematode)
Ditylenchus dipsaci	"
Helicotylenchus buxophilus	"
Heterodera bifenestra	"
H. cacti (4x)	"
H. humuli	"
H. punctata	"
Meloidogyne hapla	"
M. incognita	"
Paratylenchus sp.	"
Tylenchorhynchus sp.	"
Tylenchus davainei	"
Virus group complex (grape fanleaf, yellow mosaic and vein banding) (12x)	

GERMANY (WEST):

Criconemoides sp.	(Nematode)
Heterodera fici	"
H. humuli	"
H. punctata (8x)	"
H. rostochiensis (4x)	"
H. schachtii (2x)	"
Membracidae	(Insect)
Phomopsis ? salicina	(Fungus)
Virus group complex (grape fanleaf, yellow mosaic and vein banding)	

GREECE:

Heterodera rostochiensis	(Nematode)
H. schachtii	"
Pratylenchus sp.	"

HONG KONG:

Callosobruchus chinensis (3x)	(Insect)
C. maculatus (4x)	"
Cryptorhynchus mangiferae	"
Dacus dorsalis	"
Grapholitha molesta (2x)	"
Helicotylenchus sp. (undescribed)	(Nematode)
Lasius neoniger	(Insect)
Minthea rugicollis(2x)	"
Monomorium destructor (10x)	"
Pheidole dentata	"
Pratylenchus sp.	(Nematode)
Rhyzopertha dominica	(Insect)
Tapinoma melanocephalum	"
Thylodrias contractus	"
Trogoderma granarium (2x)	"
Tylenchorhynchus sp.	(Nematode)

Countries of Origin and Pests Intercepted

HUNGARY:
- Heterodera cacti (Nematode)
- H. fici "

INDIA:
- Dacus dorsalis (Insect)
- Dinoderus brevis "
- Gloeosporium cinctum (Fungus)
- Passandridae (Insect)
- Sinoxylon anale "
- Systole coriandri "
- Trogoderma granarium "

INDONESIA:
- Carpophilus dimidiatus (Insect)

IRELAND (Eire and N. Ireland):
- Heterodera punctata (Nematode)

ISRAEL:
- Heterodera latipons (Nematode)
- Paratylenchus sp. "
- Pratylenchus sp. "

ITALY:
- Aceria tulipae (Mite)
- Arhopalus syriacus (Insect)
- Callosobruchus maculatus "
- Helicotylenchus ? vulgaris (Nematode)
- Helix aperta (Snail)
- Heterodera avenae (Nematode)
- H. cacti (3x) "
- H. cruciferae "
- H. fici (4x) "
- H. ? goettingiana "
- H. punctata "
- H. schachtii (3x) "
- Laspeyresia splendana (2x) (Insect)
- Pratylenchus sp. (Nematode)
- Puccinia allii (Fungus)
- P. graminis (4x) "
- Sterrha ? inquinata (Insect)
- Virus group complex (grape fanleaf, yellow mosaic and vein banding)

JAMAICA:
- Blapstinus sp. (Insect)
- Solenopsis saevissima "

JAPAN:
- Aphelenchoides ? fragariae (Nematode)
- Monomorium destructor (Insect)
- Noctuidae "
- Pseudaulacaspis pentagona "

KENYA:
- Rhyzopertha dominica (Insect)

LEBANON:
- Heterodera latipons (Nematode)

MEXICO:
- Heterodera fici (Nematode)
- Lasius neoniger (Insect)
- Monomorium destructor "

NETHERLANDS:
- Aphelenchoides blastophthorus (Nematode)
- A. saprophilus "
- Aphelenchoides sp. (4x) "
- Arianta arbustorum (Snail)
- Callosobruchus maculatus (2x) (Insect)
- Criconemoides sp. (Nematode)
- Ctenicera sjaelandica (Insect)
- Ditylenchus destructor (Nematode)
- Fusarium lateritium (Fungus)
- Helicotylenchus sp. (Nematode)
- Heterodera avenae (2x) "
- H. humuli "
- H. punctata (3x) "
- H. rostochiensis (2x) "
- H. schachtii "
- Lasius neoniger (Insect)
- Meloidogyne hapla (3x) (Nematode)
- Myxosporium lanceola (5x) (Fungus)
- Noctuidae (Insect)
- Pratylenchus penetrans (Nematode)
- Rhyacionia buoliana (Insect)
- Rotylenchus robustus (Nematode)

NEW ZEALAND:
- Anguina agrostis (4x) (Nematode)
- Tilletia decipiens (Fungus)

NORTH VIETNAM:
- Helicotylenchus sp. (undescribed) (Nematode)

ORIENT (country ?):
- Onthophagus ? taurus (Insect)

PAKISTAN:
- Sinoxylon anale (Insect)

PHILIPPINES:
- Callosobruchus chinensis (Insect)
- C. maculatus "
- Minthea rugicollis "
- Noctuidae "
- Tetramorium caespitum "

Countries of Origin and Pests Intercepted

POLAND:
- Helicotylenchus pseudorobustus (Nematode)
- Heterodera rostochiensis "
- Rotylenchus sp. "

PORTUGAL:
- Helicotylenchus sp. (Nematode)
- Heterodera cacti (3x) "
- H. cruciferae "
- H. humuli "
- H. schachtii (4x) "
- Rotylenchus robustus "
- Tylenchus davainei "

ROMANIA:
- Chlorotic leaf spot virus on apple (2x)
- Quince sooty blotch virus on pear
- Quince stunt virus on pear (4x)
- Spy epinasty and decline virus on apple (2x)
- Vein yellows virus on pear (5x)

RUSSIA:
- Trogoderma granarium (Insect)

SCOTLAND:
- Aphelenchoides sp. (Nematode)
- Heterodera cacti "
- H. goettingiana "
- H. humuli "
- H. rostochiensis (8x) "
- Pratylenchus sp. "
- Rotylenchus sp. "

SINGAPORE:
- Lophocateres pusillus (Insect)

SURINAM:
- Heterodera cacti (Nematode)

SWAZILAND:
- Callosobruchus chinensis (Insect)

SWEDEN:
- Heterodera avenae (Nematode)

SWITZERLAND:
- Chlorotic leaf spot virus of apple
- Heterodera humuli (Nematode)
- Spy epinasty and decline virus of apple

THAILAND:
- Callosobruchus maculatus (Insect)

TRINIDAD:
- Ancylostomia ? stercorea (Insect)

UNITED STATES OF AMERICA (by states):

CALIFORNIA:
- Andricus californicus (Insect)
- Grapholitha molesta (2x) "
- Helix aspersa (4x) (Snail)
- Heterodera cacti (Nematode)
- Hypera postica (Insect)
- Iridomyrmex humulis "
- Noctuidae "
- Platyptilia ? pica (3x) "
- Recurvaria sp. "

FLORIDA:
- Callopistria floridensis (Insect)
- Helicotylenchus sp. (Nematode)
- Heterodera cacti "
- Lecanium sp. (Insect)
- Pseudococcus fragilis "
- Solenopsis saevissima "
- Stemphylium floridanum (Fungus)
- Tetramorium guineense (Insect)

GEORGIA:
- Meloidogyne incognita (Nematode)
- M. javanica (3x) "
- Meloidogyne sp. (4x) "

HAWAII:
- Acrolophus sp. (Insect)
- Araecerus ? simulatus "
- Callosobruchus maculatus "
- Cryptophlebia ombrodelta "
- Heterodera cacti "
- Paratrechina longicornis "
- Solenopsis saevissima "
- Tapinoma melanocephalum (3x) "

MICHIGAN:
- Meloidogyne hapla (2x) (Nematode)

MISSISSIPPI:
- Heterodera ? weissi (Nematode)

NEW YORK:
- Criconemoides sp. (Nematode)
- Rotylenchus sp. "

OHIO:
- Heterodera weissi (Nematode)

OKLAHOMA:
- Thyridopteryx ephemeraeformis (Insect)

Countries of Origin and Pests Intercepted

PENNSYLVANIA:	
Gnorimoschema operculella	(Insect)
Gracilaria azaleella	"
Heterodera weissi	(Nematode)
STATE ?:	
Gnorimoschema operculella	(Insect)
Grapholitha molesta	"
TENNESSEE:	
Meloidogyne hapla (2x)	(Nematode)
Reticulitermes sp.	(Insect)
Thyridopteryx ephemeraeformis (2x)	"
TEXAS:	
Callosobruchus maculatus	(Insect)
Meloidogyne hapla (16x)	(Nematode)
Meloidogyne sp. (3x)	"
WASHINGTON:	
Ditylenchus destructor	(Nematode)
Helicotylenchus sp.	"
Heterodera avenae	"
H. humuli	"
H. ? weissi	"
Longidorus sp.	"
Paratylenchus sp.	"
Pratylenchus sp.	"
UNKNOWN:	
Acedes fuscipunctella	(Insect)
A. pallescentella (9x)	"
Dryocoetes sp.	"
Erebus odora	"
Lampides boeticus (2x)	"
Rhyzopertha dominica (38x)	"
Sitotroga cerealella	"
Trogoderma granarium	"
U.S.S.R. (state ?):	
Heterodera punctata	(Nematode)
H. schachtii (2x)	"
Pratylenchus penetrans	"
YUGOSLAVIA:	
Aphelenchoides sp.	(Nematode)
Heterodera avenae	"
H. schachtii	"
Paratylenchus sp.	"